

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE



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APPLICANT: ALEXANDER JULIAN EGLIT AND JIN ZONG
SERIAL NO: 09/076,670
FILED: MAY 12, 1998
TITLE: A METHOD AND APPARATUS FOR UPSCALING VIDEO
IMAGES IN A GRAPHICS CONTROLLER CHIP
EXAMINER: T. JOHNSON
ART UNIT: 2723
ATTY. DKT. NO. 3444

CERTIFICATE OF MAILING

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Dated: 7/27/99

By: 

Dana S. Rao, Reg. No.: 43,875

ASSISTANT COMMISSIONER FOR PATENTS
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AMENDMENT UNDER 37 C.F.R. §1.116

The following amendment and remarks are in response to the official action mailed July 7, 1999. Applicants respectfully request that the application be amended as indicated below:

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24. (Twice Amended) A method of upscaling a source video image in a graphics controller integrated circuit, said source video image being transmitted by a processing unit comprising a plurality of uncompressed scan lines with each scan line comprising a set of pixel data, said method comprising the steps of

receiving a first uncompressed scan line of said source video image in an encoder
circuit integrated into the graphics controller integrated circuit;
compressing the pixel data corresponding to said first scan line to generate a
compressed data;
storing said compressed data in a local memory;
[retrieving] receiving a second scan line of said source video image;
retrieving said compressed data from the local memory into a decoder circuit
integrated into the graphics controller integrated circuit;
decompressing said compressed data to generate said pixel data;
generating a set of additional pixels by interpolating pixels in said first scan line
and said second scan line from an interpolator integrated into the graphics
controller integrated circuit wherein said additional pixels are comprised in an
upscaled image of said source video image.
